

Version 4.1	Revision Date: 28.09.2024		umber: 23-00014	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
SECTION	1. IDENTIFICATION			
Prod	uct name	: Flu	uazuron / Citro	onellal Formulation
Manu	ufacturer or supplier's	s details		
Com	pany	: MS	SD	
Addro	ess			, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	phone	: 90	8-740-4000	
Emei	rgency telephone	: 1-9	908-423-6000	
E-ma	il address	: EH	ISDATASTEV	VARD@msd.com
Reco	ommended use of the	chemical	and restricti	ons on use
	mmended use rictions on use		eterinary produ ot applicable	uct

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification		
Flammable liquids	:	Category 3
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

## **GHS** label elements



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Hazar	rd pictograms						
Signa	l Word	: Danger					
Hazar	d Statements	H315 Causes H317 May cau H319 Causes H335 May cau H360D May da	<ul> <li>H226 Flammable liquid and vapor.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H360D May damage the unborn child.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>				
Preca	utionary Statements	P202 Do not h and understoc P210 Keep aw and other ignit P261 Avoid br P264 Wash sk P271 Use only P272 Contami the workplace P273 Avoid re	vay from heat, hot surfaces, sparks, open flames tion sources. No smoking. reathing mist or vapors. kin thoroughly after handling. y outdoors or in a well-ventilated area. inated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-				
		ly all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P313 I attention. P333 + P313 I vice/ attention P337 + P313 I tention. P362 + P364 - reuse. P391 Collect s <b>Storage:</b> P405 Store loo <b>Disposal:</b>	<ul> <li>+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing.</li> <li>IF exposed or concerned: Get medical advice/</li> <li>If skin irritation or rash occurs: Get medical ad</li> <li>If eye irritation persists: Get medical advice/ at-</li> <li>Take off contaminated clothing and wash it before spillage.</li> </ul>				



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#### Other hazards which do not result in classification

Vapors may form explosive mixture with air.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Soya oil	8001-22-7	>= 30 -< 50
N-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 50
Propan-2-ol	67-63-0	>= 5 -< 10
Butanone	78-93-3	>= 5 -< 10
6-Octenal, 3,7-dimethyl-	106-23-0	>= 2,5 -< 5
Fluazuron	86811-58-7	>= 2,5 -< 5
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 0,25 -< 1

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

: Water spray Alcohol-resistant foam



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				Carbon dioxide (C Dry chemical	:02)
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific fighting	hazards during fire	:	fire. Flash back possib Vapors may form	l water stream as it may scatter and spread le over considerable distance. explosive mixtures with air. bustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Chlorine compour Fluorine compour	nds
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and



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		employed in the determine which Sections 13 and	naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Techr	nical measures		measures under EXPOSURE RSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ventil ventilation. Use explosion-pr	ation is unavailable, use with local exhaust roof electrical, ventilating and lighting equip-
Advic	e on safe handling	Handle in accord practice, based of assessment Non-sparking too Keep container ti Already sensitize to asthma, allerg should consult th respiratory irritan Keep away from other ignition sou Take precautiona	mist or vapors. ughly after handling. ance with good industrial hygiene and safety on the results of the workplace exposure ols should be used. ghtly closed. ed individuals, and those susceptible ies, chronic or recurrent respiratory disease, eir physician regarding working with
Condi	itions for safe storage	Store locked up. Keep tightly close Keep in a cool, w Store in accordar	rell-ventilated place.
Mater	ials to avoid	Do not store with Strong oxidizing Self-reactive sub Organic peroxide Flammable solids Pyrophoric liquid Pyrophoric solids Self-heating subs Substances and flammable gases Explosives Gases	stances and mixtures s s s s stances and mixtures mixtures which in contact with water emit



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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	(Form of ters / Permissible	
Propan-2-ol	67-63-0	CMP	400 ppm	AR OEL
		CMP - CPT	500 ppm	AR OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Butanone	78-93-3	CMP	200 ppm	AR OEL
		CMP - CPT	300 ppm	AR OEL
		TWA	75 ppm	ACGIH
		STEL	150 ppm	ACGIH
Fluazuron	86811-58-7	TWA	60 µg/m3 (OEB 3)	Internal
		Wipe limit	600 µg/ 100cm2	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	CMP (Va- pour and aerosol, in- halable frac- tion)	2 mg/m <sup>3</sup>	AR OEL
	Further inform	nation: A4 - Not c	lassifiable as a huma	n carcinogen
		TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH

## **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI
Propan-2-ol	67-63-0	Acetone	Urine		2 mg/g creatinine	AR BEI
		Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Butanone	78-93-3	MEK	Urine	End of shift	2 mg/l	AR BEI
		methyl ethyl ketone	Urine	End of shift (As soon as possible after	2 mg/l	ACGIH BEI



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				exposure ceases)				
Engi	neering measures	:	<ul> <li>Use appropriate engineering controls and manufacturin technologies to control airborne concentrations (e.g., du less quick connections).</li> <li>All engineering controls should be implemented by faci design and operated in accordance with GMP principle protect products, workers, and the environment.</li> <li>Containment technologies suitable for controlling comp are required to control at source and to prevent migrate the compound to uncontrolled areas (e.g., open-face containment devices).</li> <li>Minimize open handling.</li> </ul>					
			Use explosion-p equipment.	proof electrical, ventilating and lighting				
Perse	onal protective equi	pment						
Resp	Respiratory protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside recommended guidelines, use respiratory protection.					
	Iter type protection	:	Organic vapor T					
M	aterial	:	Chemical-resist	ant gloves				
Re	emarks	:		e gloving. Take note that the product is th may impact the selection of hand				
Eye p	protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or					
Skin	and body protection	:	<ul> <li>aerosols.</li> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentia contaminated clothing.</li> </ul>					
Hygie	ene measures	:	If exposure to cl eye flushing sys working place. When using do Contaminated w workplace. Wash contamina The effective op engineering con appropriate deg	nemical is likely during typical use, provid items and safety showers close to the not eat, drink or smoke. york clothing should not be allowed out of ated clothing before re-use. heration of a facility should include review trols, proper personal protective equipme owning and decontamination procedures he monitoring, medical surveillance and the	f the / of ent, s,			

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## SAFETY DATA SHEET



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	Appear	ance	:	Aqueous solution	
	Color		:	yellow	
	Odor		:	No data available	
	Odor T	hreshold	:	No data available	
	рН		:	No data available	
	Melting	point/freezing point	:	-4 °C	
	Initial b range	oiling point and boiling	:	78 °C	
	Flash p	oint	:	52 °C	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	0,94 - 0,96	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	practically insolut	ble
	Solu	ubility in other solvents	:	soluble Solvent: Ethanol	
	Partitio octanol	n coefficient: n-	:	log Pow: -0,54	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	5,3 - 5,7 mm²/s (	25 °C)
	Explosi	ve properties	:	Not explosive	



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Oxidiz	ing properties	:	The substance of	or mixture is not classified as oxidizing.			
Molec	ular weight	:	No data availab	e			
Particle characteristics Particle size			: Not applicable				
SECTION 10. STABILITY AND REACTIVITY							
	ivity ical stability pility of hazardous reac	: : - :	<ul> <li>Not classified as a reactivity hazard.</li> <li>Stable under normal conditions.</li> <li>Flammable liquid and vapor.</li> <li>Vapors may form explosive mixture with air.</li> <li>Can react with strong oxidizing agents.</li> </ul>				
Incom	tions to avoid patible materials dous decomposition cts	:	Heat, flames an Oxidizing agents No hazardous d				
SECTION '	11. TOXICOLOGICAL	INFO	ORMATION				
Inform	nation on likely routes o	f :	Inhalation				
expos	ure		Skin contact Ingestion Eye contact				
expos	ure • toxicity		Ingestion				
expos <b>Acute</b> Not cla	e <b>toxicity</b> assified based on availa	able	Ingestion Eye contact				
expos <b>Acute</b> Not cla <u>Produ</u>	e <b>toxicity</b> assified based on availa	able :	Ingestion Eye contact information.	imate: > 5.000 mg/kg ion method			
expos Acute Not cla <u>Produ</u> Acute	e <b>toxicity</b> assified based on availa <u>Ict:</u>	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat	ion method imate: > 5.000 mg/kg			
expos Acute Not cla <u>Produ</u> Acute Acute	e <b>toxicity</b> assified based on availa <u>ict:</u> oral toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	ion method imate: > 5.000 mg/kg			
expos Acute Not cla Produ Acute Acute	e <b>toxicity</b> assified based on availa <u>ict:</u> oral toxicity dermal toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	ion method imate: > 5.000 mg/kg			
expos Acute Not cla Acute Acute Acute N-Met	e <b>toxicity</b> assified based on availa <u>act:</u> oral toxicity dermal toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est	ion method imate: > 5.000 mg/kg ion method			
expos Acute Not cla Acute Acute Acute N-Met Acute	e <b>toxicity</b> assified based on availa <u>ict:</u> oral toxicity dermal toxicity <u>conents:</u> thyl-2-pyrrolidone:	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est Method: Calculat LD50 (Rat): 4.15 LC50 (Rat): > 5,7 Exposure time: 4 Test atmosphere	tion method timate: > 5.000 mg/kg tion method 0 mg/kg I mg/I h			
expos Acute Not cla Produ Acute Acute Comp N-Met Acute	e toxicity assified based on availa <u>ict:</u> oral toxicity dermal toxicity <u>ponents:</u> thyl-2-pyrrolidone: oral toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est Method: Calculat LD50 (Rat): 4.15 LC50 (Rat): > 5,7 Exposure time: 4 Test atmosphere	tion method timate: > 5.000 mg/kg tion method 0 mg/kg I mg/l h :: dust/mist Test Guideline 403			
expos Acute Not cla Produ Acute Acute Comp N-Met Acute Acute	e toxicity assified based on availa <u>assified based on availa</u> oral toxicity dermal toxicity conents: thyl-2-pyrrolidone: oral toxicity inhalation toxicity dermal toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est Method: Calculat LD50 (Rat): 4.15 LC50 (Rat): > 5,7 Exposure time: 4 Test atmosphere Method: OECD T	tion method timate: > 5.000 mg/kg tion method 0 mg/kg I mg/l h :: dust/mist Test Guideline 403			
expos Acute Not cla Produ Acute Acute Acute Acute Acute Acute Propa	e toxicity assified based on availa <u>ict:</u> oral toxicity dermal toxicity <b>conents:</b> thyl-2-pyrrolidone: oral toxicity inhalation toxicity	:	Ingestion Eye contact information. Acute toxicity est Method: Calculat Acute toxicity est Method: Calculat LD50 (Rat): 4.15 LC50 (Rat): > 5,7 Exposure time: 4 Test atmosphere Method: OECD T	tion method timate: > 5.000 mg/kg tion method 0 mg/kg 1 mg/l h : dust/mist Test Guideline 403 000 mg/kg			



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				Exposure time: 6 Test atmosphere:	
	Acute o	dermal toxicity	:	LD50 (Rabbit): >	5.000 mg/kg
	Butano	one:			
	Acute o	oral toxicity	:	LD50 (Rat): > 2.0 Remarks: Based	00 - 5.000 mg/kg on data from similar materials
	Acute i	nhalation toxicity	:	LC50 (Rat): > 25, Exposure time: 4 Test atmosphere: Method: OECD T Remarks: Based	h vapor
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 5	5.000 mg/kg
	6-Octe	nal, 3,7-dimethyl-:			
	Acute o	oral toxicity	:	LD50 (Rat, female	e): 2.150 mg/kg
	Acute of	dermal toxicity	:	LD50 (Rabbit): > 2	2.500 - 5.000 mg/kg
	Fluazu	ron:			
	Acute o	oral toxicity	:	LD50 (Rat): > 5.0 Method: OECD T	
	Acute i	nhalation toxicity	:	LC50 (Rat): > 6,0 Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
	Acute o	dermal toxicity	:	LD50 (Rat): > 2.0 Method: OECD T	
	2,6-Di-	tert-butyl-p-cresol:			
	Acute o	oral toxicity	:	LD50 (Rat): > 6.0 Method: OECD T	
	Acute o	dermal toxicity	:	LD50 (Rat): > 2.0 Method: OECD To Assessment: The toxicity	00 mg/kg est Guideline 402 substance or mixture has no acute dermal
		orrosion/irritation			
		onents:			
		nyl-2-pyrrolidone:			
	Result		:	Skin irritation	



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Propa	an-2-ol:			
Specie	es	: Ra	bbit	
Resul			skin irritation	
Butar	ione:			
Asses	sment	: Re	peated exposu	ire may cause skin dryness or cracking.
Specie Metho			bbit CD Test Guid	alina 404
Resul			skin irritation	
Rema				om similar materials
6-Oct	enal, 3,7-dimethyl-:			
Specie	es	: Ra	bbit	
Resul			in irritation	
Fluaz	uron:			
Specie	es	: Ra	bbit	
Metho	od	-	CD Test Guid	eline 404
Resul	t	: No	skin irritation	
2,6-Di	-tert-butyl-p-cresol:			
Speci			bbit	
Metho			CD Test Guid	eline 404
	t	: NC	skin irritation	
Resul	rke	· Po		
Rema	rks	: Ba	sed on data fro	om similar materials
Rema Serio	us eye damage/eye i	rritation	sed on data fro	om similar materials
Rema <b>Serio</b> Cause		rritation	sed on data fro	om similar materials
Rema Serio Cause <u>Comp</u>	us eye damage/eye i es serious eye irritatio	rritation	sed on data fro	om similar materials
Rema Serior Cause <u>Comp</u> N-Met	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone:	n.	sed on data fro	om similar materials
Rema Serio Cause <u>Comp</u>	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es	n. : Ra	bbit	reversing within 21 days
Rema Serio Cause <u>Comp</u> N-Met Specie Result	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es	n. : Ra	bbit	
Rema Serio Cause Comp N-Met Specie Result Propa Specie	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es	n. : Ra : Irri : Ra	bbit tation to eyes, bbit	reversing within 21 days
Rema Serior Cause Comp N-Met Specie Result	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es	n. : Ra : Irri : Ra	bbit tation to eyes, bbit	
Rema Serior Cause Comp N-Met Specie Result Propa Specie Result	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es t	rritation n. : Ra : Irri : Ra : Irri	bbit tation to eyes, bbit tation to eyes,	reversing within 21 days
Rema Serio Cause Comp N-Met Specie Result Propa Specie Result Butan Specie	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es t none: es	i <b>rritation</b> n. : Ra : Irri : Ra : Irri	bbit tation to eyes, bbit tation to eyes, bbit	reversing within 21 days reversing within 21 days
Rema Serior Cause Comp N-Met Specia Result Propa Specia Result Butan Specia Result	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es t	i <b>rritation</b> n. : Ra : Irri : Ra : Irri : Ra : Irri	bbit tation to eyes, bbit tation to eyes, bbit tation to eyes,	reversing within 21 days reversing within 21 days reversing within 21 days
Rema Serio Cause Comp N-Met Specie Result Propa Specie Result Butan Specie	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es t	i <b>rritation</b> n. : Ra : Irri : Ra : Irri : Ra : Irri	bbit tation to eyes, bbit tation to eyes, bbit	reversing within 21 days reversing within 21 days reversing within 21 days
Rema Serior Cause Comp N-Met Specie Result Butan Specie Result Metho 6-Oct	us eye damage/eye i es serious eye irritatio <u>ponents:</u> thyl-2-pyrrolidone: es t an-2-ol: es t none: es t od enal, 3,7-dimethyl-:	i <b>rritation</b> n. : Ra : Irri : Ra : Irri : Ra : Irri : OE	bbit tation to eyes, bbit tation to eyes, bbit tation to eyes, ECD Test Guid	reversing within 21 days reversing within 21 days reversing within 21 days
Rema Serio Cause Comp N-Met Specie Result Butan Specie Result Metho	us eye damage/eye i es serious eye irritatio ponents: thyl-2-pyrrolidone: es t an-2-ol: es t none: es t od enal, 3,7-dimethyl-: es	i <b>rritation</b> n. : Ra : Irri : Ra : Irri : OE : Ra	bbit tation to eyes, bbit tation to eyes, bbit tation to eyes, CD Test Guid bbit	reversing within 21 days reversing within 21 days reversing within 21 days



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Flua: Spec Resu Meth	ılt	: Rabbit : Mild eye irritatio : OECD Test Gu	
Spec Resu Meth Rema	ılt od		
May	sensitization cause an allergic skin i biratory sensitization	reaction.	
Not c	classified based on ava	ilable information.	
Test	es of exposure sies od ilt	<ul> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Gu</li> <li>negative</li> </ul>	de assay (LLNA) ideline 429 from similar materials
Test	es of exposure iles od	: Buehler Test : Skin contact : Guinea pig : OECD Test Gu : negative	ideline 406
Test	es of exposure iles od	: Buehler Test : Skin contact : Guinea pig : OECD Test Gu : negative	ideline 406
Test	es of exposure ties	: Maximization T : Skin contact : Guinea pig : positive	est
Asse	ssment	: Probability or e	vidence of skin sensitization in humans



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Fluaz	uron:		
Route Speci Resu		: Skin contact : Guinea pig : negative	
2,6-D	i-tert-butyl-p-cresol:		
Test Route Speci Resu	es of exposure les	: Human repea : Skin contact : Humans : negative	t insult patch test (HRIPT)
	<b>cell mutagenicity</b> lassified based on av	ailable information.	
<u>Com</u>	ponents:		
N-Me	thyl-2-pyrrolidone:		
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
			vitro mammalian cell gene mutation test D Test Guideline 476 ive
			NA damage and repair, unscheduled DNA syn- malian cells (in vitro) ive
Geno	toxicity in vivo	cytogenetic as Species: Mou Application R	se oute: Ingestion D Test Guideline 474
		cytogenetic te Species: Ham Application R	oute: Ingestion D Test Guideline 475
Propa	an-2-ol:		
-	toxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mou	



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		Application R Result: negat	oute: Intraperitoneal injection ive
Butar	none:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
		Test Type: Cł Result: negat	nromosome aberration test in vitro ive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ive
		Test Type: Sa (in vitro) Result: negat	accharomyces cerevisiae, gene mutation assay ive
Geno	toxicity in vivo	cytogenetic a Species: Mou Application R	se oute: Intraperitoneal injection
		Result: negat	ive
	enal, 3,7-dimethyl-:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
			vitro mammalian cell gene mutation test D Test Guideline 476 ive
			vitro micronucleus test D Test Guideline 487 ive
Geno	toxicity in vivo	cytogenetic a Species: Mou	se oute: Ingestion
			sed on data from similar materials
Fluaz	uron:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: DI Result: negat	



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		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
Geno	otoxicity in vivo	: Test Type: Cy Species: Ham Result: equivo	
2.6-D	i-tert-butyl-p-cresol:		
-	otoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
		Test Type: Ch Result: negati	romosome aberration test in vitro ve
Geno	otoxicity in vivo	cytogenetic te Species: Rat	itagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) pute: Ingestion ve
Carc	inogenicity		
	lassified based on avai	lable information.	
Com	ponents:		
N-Me	thyl-2-pyrrolidone:		
Spec	ies	: Rat	

Species Application Route Exposure time Result	:	Rat Ingestion 2 Years negative
Species Application Route Exposure time Result	:	Rat inhalation (vapor) 2 Years negative
Propan-2-ol:		
Species Application Route Exposure time Method Result	:	Rat inhalation (vapor) 104 weeks OECD Test Guideline 451 negative
6-Octenal, 3,7-dimethyl-:		
Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	104 - 105 weeks
Result	:	negative

Remarks



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	cation Route sure time It	: : : : :	Mouse Ingestion 104 - 105 weeks negative Based on data fr	om similar materials
Speci Appli	cation Route sure time od	:	Rat Ingestion 2 Years OECD Test Guid negative	eline 453
	cation Route sure time	: : :	Mouse Ingestion 2 Years negative	
Spec Appli	cation Route sure time	:	Rat Ingestion 22 Months negative	
May	oductive toxicity damage the unborn child ponents:			
N-Me	<b>thyl-2-pyrrolidone:</b> ts on fertility	:	Species: Rat Application Route	generation reproduction toxicity study e: Ingestion Fest Guideline 416
Effec	ts on fetal development	:	Species: Rat Application Route	yo-fetal development e: Ingestion <sup>-</sup> est Guideline 414
			Species: Rat	ty/early embryonic development e: inhalation (vapor)
			Test Type: Embr Species: Rabbit Application Route Result: positive	yo-fetal development e: Ingestion



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	roductive toxicity - As- ment	:	Clear evidence of animal experimen	adverse effects on development, based on its.
Pro	oan-2-ol:			
-	cts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effe	cts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
Buta	anone:			
Effe	cts on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
Effe	cts on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
6-00	ctenal, 3,7-dimethyl-:			
	cts on fertility	:	Species: Rat Application Route Method: OECD T Result: negative	
Effe	cts on fetal development	:	Species: Rat Application Route Method: OECD T Result: negative	
Flua	zuron:			
	cts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effe	cts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development : Ingestion



/ersion 1.1	Revision Date: 28.09.2024		0S Number: 24623-00014	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
			Species: Rabbit Application Route	vo-fetal development :: Ingestion est Guideline 414
-	<b>i-tert-butyl-p-cresol:</b> ts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development : Ingestion
	<b>F-single exposure</b> cause respiratory irritatio	n.		
Com	ponents:			
	<b>ethyl-2-pyrrolidone:</b> ssment	:	May cause respir	atory irritation.
-	<b>an-2-ol:</b> ssment	:	May cause drows	iness or dizziness.
	none: ssment	:	May cause drows	iness or dizziness.
	<b>F-repeated exposure</b> lassified based on availa	ble	information.	
Com	ponents:			
	<b>li-tert-butyl-p-cresol:</b> ssment	:	No significant heations of 100 mg/k	alth effects observed in animals at concentra- g bw or less.
Repe	ated dose toxicity			
Com	ponents:			
	ies	:	Rat 4.000 mg/kg Ingestion 90 h	



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N-M	lethyl-2-pyrrolidone:		
Spe NO LOA App Exp	ecies AEL	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Guid	eline 408
NO LOA App Exp	ecies AEL AEL Dication Route Dosure time thod	: Rat : 0,5 mg/l : 1 mg/l : inhalation (dust/n : 96 Days : OECD Test Guid	
NO LOA App	ecies AEL AEL olication Route oosure time	: Rabbit : 826 mg/kg : 1.653 mg/kg : Skin contact : 20 Days	
Pro	pan-2-ol:		
NO. App	ecies AEL olication Route oosure time	: Rat : 12,5 mg/l : inhalation (vapor) : 104 Weeks	
But	anone:		
NO. App	ecies AEL blication Route bosure time thod	: Rat : 14,84 mg/l : inhalation (vapor) : 90 Days : OECD Test Guid	
6-O	ctenal, 3,7-dimethyl-:		
Spe LOA App Exp	ecies	: Rat : > 100 mg/kg : Ingestion : 14 Weeks : Based on data fro	om similar materials
Flu	azuron:		
LÖA App Exp	ecies AEL blication Route bosure time get Organs	: Rat : 240 mg/kg : Ingestion : 13 Weeks : Liver, Thyroid, Pi	tuitary gland
	ecies AEL	: Rat : 10 mg/kg	



ersion I	Revision Date: 28.09.2024		OS Number: 24623-00014	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
	EL cation Route sure time	:	100 mg/kg Skin contact 3 Weeks	
Expos	ΞL	:	Dog 7,5 mg/kg 110 mg/kg Ingestion 52 Weeks Liver	
2,6-D	i-tert-butyl-p-cresol:			
		:	Rat 25 mg/kg Ingestion 22 Months	
•	ration toxicity lassified based on availa	ble	information.	
	oonents:			
ration <b>Expe</b>	ubstance or mixture cau toxicity hazard. rience with human exp		-	the assumption that it causes a human aspi-
N-Me	thyl-2-pyrrolidone:			
	contact	:	Symptoms: Skin	rritation
Ecoto	12. ECOLOGICAL INFO	JRI	MATION	
	<u>ponents:</u> thyl-2-pyrrolidone:			
	ity to fish	:	LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): > 500 mg/l
				0 11
	ity to daphnia and other ic invertebrates	:	•	nagna (Water flea)): > 1.000 mg/l 4 h
aquat	ic invertebrates	:	EC50 (Daphnia n Exposure time: 2 Method: DIN 384	nagna (Water flea)): > 1.000 mg/l 4 h 12 smus subspicatus (green algae)): 600,5 mg/l
aquat Toxic	ic invertebrates	:	EC50 (Daphnia n Exposure time: 2 Method: DIN 384 ErC50 (Desmode Exposure time: 7	nagna (Water flea)): > 1.000 mg/l 4 h 12 smus subspicatus (green algae)): 600,5 mg/l 2 h smus subspicatus (green algae)): 92,6 mg/l



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	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
	Toxicity to microorganisms		:	EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192		
	Propan	-2-01:				
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 9.640 mg/l s h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10.000 mg/l ⊧ h	
	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1.050 mg/l b h	
	Butano	ne.				
	Toxicity	-	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 96 Method: OECD Te		
				NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te		
	6 Octo	aal 27 dimathyly				
	Toxicity	n <b>al, 3,7-dimethyl-:</b> to fish	:	LC50 (Leuciscus i Exposure time: 96 Method: DIN 3841		
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 8,7 mg/l 5 h 67/548/EEC, Annex V, C.2.	
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 13,33 mg/l ? h	
				EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 4,52 mg/l ? h	
	Toxicity	to microorganisms	:	EC10 (Pseudomo	nas putida): 650 mg/l	



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			Exposure time: 30	) min	
	azuron: icity to fish	:	LC50 (Cyprinus c Exposure time: 96	arpio (Carp)): > 9,1 mg/l 3 h	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia sp. (Water flea)): 0,0006 mg/l Exposure time: 48 h		
Tox plar	icity to algae/aquatic its	:	NOEC (Raphidocelis subcapitata (freshwater green alga)): 27,9 mg/l Exposure time: 72 h		
M-F icity	M-Factor (Acute aquatic tox-		1.000		
•	actor (Chronic aquatic	:	1.000		
2,6-	Di-tert-butyl-p-cresol:				
Тох	icity to fish	:	Exposure time: 96	(zebra fish)): > 0,57 mg/l 5 h 67/548/EEC, Annex V, C.1.	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Tox plar	icity to algae/aquatic its	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te		
M-F icity		:	1		
	icity to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te		
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,316 mg/l I d	
	actor (Chronic aquatic	:	1		
	icity to microorganisms	:	EC50: > 10.000 m Exposure time: 3 Method: OECD Te	ĥ	



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Persi	stence and degradal	bility	
<u>Com</u>	oonents:		
N-Me	thyl-2-pyrrolidone:		
	gradability	Biodegrad Exposure	eadily biodegradable. dation: 73 % time: 28 d DECD Test Guideline 301C
-	a <b>n-2-ol:</b> gradability	: Result: ra	pidly degradable
BOD/	COD	: BOD: 1,1 COD: 2,2 BOD/COI	3
Butar	none:		
Biode	gradability	Biodegrad Exposure	eadily biodegradable. dation: 98 % time: 28 d DECD Test Guideline 301D
6-Oct	enal, 3,7-dimethyl-:		
	gradability	Biodegrad Exposure	eadily biodegradable. dation: 83 % time: 28 d DECD Test Guideline 301B
2 6-D	i-tert-butyl-p-cresol:		
•	gradability	Biodegrad Exposure	ot readily biodegradable. dation: 4,5 % time: 28 d DECD Test Guideline 301C
Bioad	cumulative potentia	I	
<u>Com</u> p	oonents:		
Soya			
Partiti	ion coefficient: n- ol/water	: log Pow: Remarks:	> 4 Calculation
N-Me	thyl-2-pyrrolidone:		
Partiti	ion coefficient: n- ol/water	: log Pow: Method: 0	-0,46 DECD Test Guideline 107
-	an-2-ol:		
	ion coefficient: n- ol/water	: log Pow:	0,05



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	<b>Butanone:</b> Partition coefficient: n- octanol/water		:	log Pow: 0,3	
	6-Octenal, 3,7-dimethyl-: Partition coefficient: n- octanol/water		:	log Pow: 3,62	
		u <b>ron:</b> on coefficient: n- ol/water	:	log Pow: 5,1	
	2,6-Di	-tert-butyl-p-cresol:			
	Bioaco	cumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1.800
		on coefficient: n- ol/water	:	log Pow: 5,1	
	Mobili	ty in soil			
	No dat	ta available			
	•	adverse effects ta available			

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

#### SECTION 14. TRANSPORT INFORMATION

## International Regulations

:	UN 1993
:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone)
:	3
:	111
:	3
:	no
:	UN 1993
:	Flammable liquid, n.o.s. (Propan-2-ol, Butanone)



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Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		:	3 III Flammable Liquid 366 355	S
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		:	UN 1993 FLAMMABLE LIC (Propan-2-ol, Buta 3 III 3 F-E, <u>S-E</u> yes	UID, N.O.S. anone, Fluazuron, 2,6-Di-tert-butyl-p-cresol)

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or<br/>mixtureArgentina. Carcinogenic Substances and Agents<br/>Registry.: Not applicableControl of precursors and essential chemicals for the<br/>trees in the substance of the substance or propan-2-ol

preparation of drugs.

#### The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

## **SECTION 16. OTHER INFORMATION**

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### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/



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#### Full text of other abbreviations

ACGIH ACGIH BEI AR BEI AR OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Argentina. Biological Exposure Indices Argentina. Occupational Exposure Limits
ACGIH / TWA ACGIH / STEL AR OEL / CMP AR OEL / CMP - CPT	:	8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.